

ABSTRACT OF THE DISCLOSURE

A computer-aid mechanical design software is provided with a mechanical design assembly translator that first translates first representations of parts of sub-assemblies of a mechanical design assembly to second translated representations of the parts of the sub-assemblies of the mechanical design assembly. The assembly translator thereafter translates one or more assembly constraints of the assembly by correspondingly constraining geometric entities within the translated representations that are counterpart to geometric entities within the pre-translation representations constrained by the one or more assembly constraints. The assembly translator is equipped to identify the corresponding geometric entities within the post-translation representations to be constrained.